THINKCENTRE M93z TECHSPECS

Product Name	ThinkCentre M93z	Communication				
Form Factor	All-in-One	Network Controller	Integrated 10M/100M/1000M Gigabit Ethernet[6]			
Operating System	Windows® 8 Pro 64bit/32bit[1]	Wireless Communication[3]	Wi-Fi IEEE 802.11b/g/n or a/b/g/n or ac/b/g/n[7]			
	Windows® 8 64bit/32bit[1]		Bluetooth v4.0 (optional/ combo with WiFI)			
	Windows® 7 Ultimate 64bit/32bit	Slots & Connectors				
	Windows® 7 Professional 64bit / 32bit	3.5' Internal Bay	1 (HDD)			
	Windows® 7 Home Premium 64bit / 32bit	5'25 Internal Bay	1 (Slim ODD) optional, support 2nd storage(2.5" HDD/SSD)[7]			
	Windows® 7 Home Basic 64bit/32bit	Mini PCI-E	1 (half-size card), 1 (full height mini-card)			
Chipset	Intel® Q87	SATA	2			
Processor[2]	Intel® 4th Generation CoreTM i7 45W/ 65W	mSATA	1(shared with full height mini-card)			
	Intel® 4th Generation CoreTM i5 35W/ 45W/ 65W	I/O Ports (Side)				
	Intel vPro™ Technology available with select processors	USB (Type)	2 x USB 3.0			
Memory		Audio Out /MIC In	1 x SPK out (Combo Jack); 1 x MIC in			
DIMM Slots	2	Media Card Reader	1, 11-in-1 (optional)			
Type	DDR3 (SoDIMM)	I/O Ports (Rear)				
Speed	Up to 1600 MHZ	USB (Type)	4 x USB 3.0			
Module Type Supported	2GB/4GB/8GB	Video IN / Out	1 x VGA IN, 1 x DP OUT, Output support up to 3840x2160			
		Parallel Port	N/A			
Max Memory	16GB	COM	1, optional			
Bandwidth	Up to 12.8GB/s(single-channel mode) / 25.6GB/s(dual-channel mode)	PS/2	1 (1 for KB, 1 for mouse),optional			
Graphics		ExpressCard	1, 34mm (optional)			
Integrated	Intel® HD Graphics	Security				
Discrete[3]	AMD Radeon HD8730A	TPM	Yes			
Displays		Computrace	Yes			
Panel Size	23 inch	USB Disable	Yes			
Multi-touch	Yes, optional, 10 points touch	Intrustion Switch	Yes (optional)			
Backlight Type	LED	Asset ID/ LAN Surge	Yes/ Yes(China only)			
Aspect Ratio	Wide (16:9)					
Resolution (max)	1920 x 1080	Kensington Lock	Yes (optional)			
Wide Viewing Angle	Yes	Cable Lock	Yes (optional)			
		Ease of Use				
Anti-glare	Touch model only	Chassis	Yes			
Peripherals		HDD	Yes			
Keyboard	Lenovo®Ultra Slim Plus Wireless Keyboard	ODD	Yes			
	Lenovo® Preferred Pro Full-size Keyboard (USB / PS/2[4])	Memory	Yes			
	Lenovo® Preferred Pro Fingerprint Keyboard[4]	VESA mount / Stand	Yes/Yes Frame Stand + Monitor Stands Option			
Mouse	Lenovo®Ultra Slim Plus Wireless Mouse					
	Optical Wheelmouse (PS/2)[4]	Easy to Carry Handle	Yes			
	Lenovo enhanced USB mouse					
Web Camera[3]	2 Mega Pixel HD Webcam	Power Supply	Internal, 92% Efficiency, 150W 85% / 180W 92% (ES 6.0/ Climate Saver)			
Dual MIC[3]	Digital array MIC	Chassis Dimension (with Stand)	Touch, with Frame Stand	Touch, with Monitor Stand	Non-Touch, with Frame Stand	Non-Touch, with Monitor Stand
Speaker	Integrated 3W x 2					
Hard Drive		Height (mm)	447.3	439~479	447.3	439~479
Supported Types	Serial-ATA 3.0	Width (mm)	568	568	568	568
Bus Transfer Rate	6 Gb/s	Depth (mm)	94	247	93	247
Available Drives	250GB / 500GB / 1TB / 2TB[4]	Weight (kg) [8]	11.3	12.76	9.76	11.68
	500GB / 1TB[5] SSHD	Chassis Dimension (without Stand)	Non-Touch	Touch	Touch GPU	
	2.5" 128/ 180GB SSD					
	2.5'' 320GB OPAL SSC HDD[4]	Height (mm)	401	401	401	
Optical Drive		Width (mm)	568	568	568	
Supported Types	Serial-ATA	Depth (mm)	67	68.5	68.5	
Available Drives	Slim Rambo/Slim DVD ROM SATA(optional)	Weight (kg) [8]	8.6	10.14	10.24	

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Environment Attributes	
Temperature	Operating: 110°C - 35°C (50F to 95F) Non-operating:-40°C - 60°C (50F to 140F) (with package) Wet Bulb Temperature: 25°C (max) (Operating), 40°C (max) (Non-Operating)
Relative Humidity	Operating: 20% ~ 80% (non-condensing) Non-Operating: 20% ~ 90% (non-condensing)
Max Vibration	Operating: 0.27 G at 5 to 500 Hz at 0.5 octave/min,Ramdom Non-Operating: 1.04 G at 2 to 200 Hz at 1 octave/min With Package: 1.04 G at 2 to 200 Hz at 1 octave/min
Max Shock	Operating: Bottom half-sine pulse with a change in velocity of 37.4 cm/sec (14.7 inches/sec) Non-Operating: 45-G faired square wave with a velocity change of 441 cm/sec (173.7 inches/sec)
Max Altitude	Operating: –15.2 to 3048 m (–50 to 10,000 ft) Non-Operating: –15.2 to 10,668 m (–50 to 35,000 ft)
Windows 7 Preload Software	Adobe® Acrobat Reader Cyberlink PowerDVD Cyberlink Create Communication Utility Desktop Power Manager Evernote Factory Recovery 10.01 Intel Small Business Advantage Lenovo Message Center Plus Microsoft® Office 2013 Trial Nitro PDF Norton Internet Security 2013 - 30 days Trial Simple Tap Skype™ ThinkVantage® System Update ThinkVantage® Rescue and Recovery® (Ready to Install) ThinkVantage® Password Manager (Ready to Install) ThinkVantage® Automatic Lock Utility View Manager Utility
Windows 8 Preload Software	Accuweather Cyberlink PowerDVD Cyberlink Create Desktop Power Manager Evernote Intel Small Business Advantage Lenovo Companion Lenovo Cloud Shield by SugarSync Lenovo Quick Launch Lenovo Support Lenovo Solution Center Nitro Pro 7 Norton Internet Security 2013 - 30 days Trial Password Manager (Web install) PC Device Stage Skype™ System Update
Certifications	
Safety	EU/EFTA CE Mark & DoC Intertek-GS IEC60950-1 CB Report/Certificate

Safety	Argentina S-mark China CCC Mark Mexico - NOM South Africa – SABS EU mark (Russia, Kazakhstan and Belarus) Israel (Done, under general license) Croatia - ZIK Nigeria Kenya Ukraine Kuwait Saudi Arabia-SASO Moldova UL/CUL
Environmental	China energy label China RoHS CECP CEL REACH EU RoHS WEEE TUV Green Mark PC Green Label e-Standby Korea RoHS TCO TCO Edge Green Mark Turkey RoHS California RoHS New York RoHS EPEAT Energy Star GreenGuard ULE Product Carbon Footprint
EMC&RF	FCC DoC for North America BSMI certification for Taiwan EU/EFTA CE Mark & DoC VCCI certification for Janpan C-tick for Australia new-zealand KC mark for Korea MIC for Vietnam

Footnote

Footnote 1: 32bit version is SpB only
Footnote 2: 45W processor is SpB only, Intel Core i5, i7 with vPro Technology is a selectable feature that is available on units configured with select processors, an Intel wireless module, and a preinstalled Windows operating system.
Footnote 3: Optional
Footnote 4: CTO or SpB
Footnote 5: Available in CY2013Q4
Footnote 6: The term "10/100/1000" or "Gigabit" Ethernet indicates compliance with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.
Footnote 7: SpB only
Footnote 8: Weight various by optional features.(Webcam/Card reader/IO ports /antenna)

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